

Video & Rich Media: What Needs Doing



WIKIMEDIA
FOUNDATION

WikiConference North America
San Diego, 2016-10-08

Brion Vibber
Wikimedia Foundation

State of things 2016

Audio



WIKIMEDIA
FOUNDATION



What works in audio

- Ogg Vorbis, Opus uploads
- Playback in all desktop browsers
- Playback in Android mobile browsers

What's broken in audio

- No mobile playback on iOS (coming soon)
- Upload requires manual conversion of mp3, some wav files
- FLAC uploads but doesn't play back
- Direct [[Media:]] links fail in Safari/IE/Edge, poor experience in Chrome/Firefox

What's missing in audio

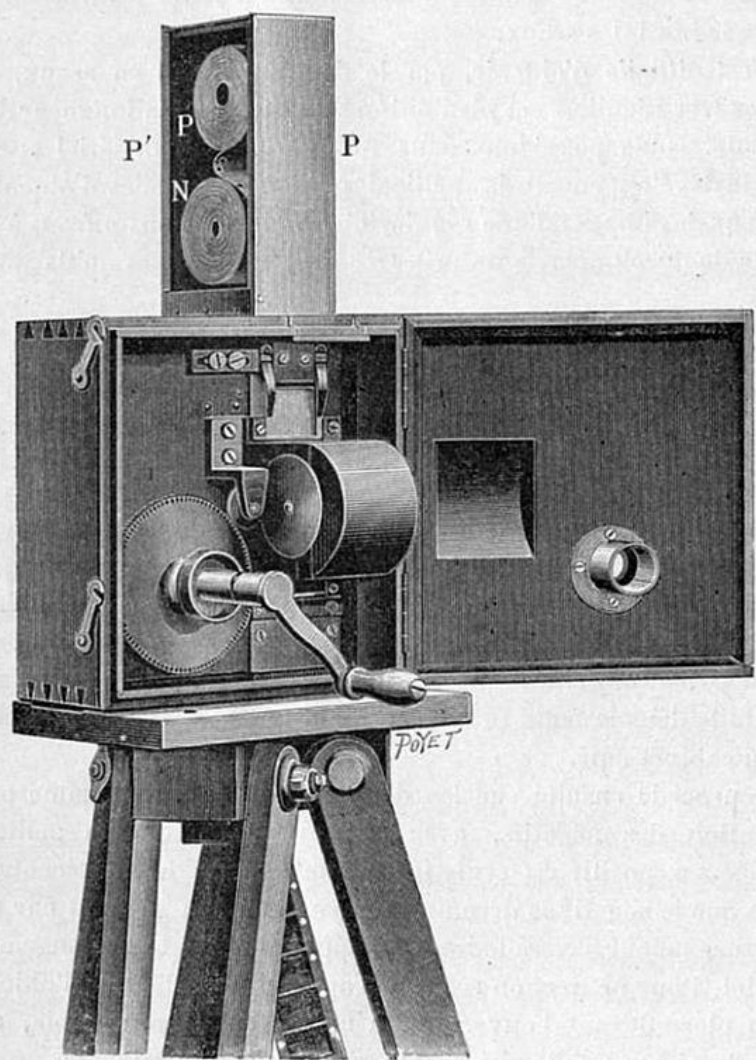
- No support for recording audio oneself without external tools
- Poor support for extracting clips
- Poor seeking support in long audio files
- Can't pair an audio with a video
- Audio player always big, so audio clips for pronunciation often linked with `[[Media:]]`



Video



WIKIMEDIA
FOUNDATION



What works in video

- Ogg Theora, WebM uploads
- Playback in all desktop browsers
- Subtitles

What's broken in video

- Mobile playback on Android, iOS (coming soon)
- No automatic adaptation to net/CPU limits in player
- Playback doesn't integrate into multimedia viewer
- Upload requires manual conversion to Ogg or WebM
- Upload still sometimes flaky for large video files
- Upload requires admin intervention for very large video files

What's missing in video

- Editors can't specify whether video should play inline vs zoomed
- No way to specify autoplay of loops (versus GIFs which “just work”)
- Poor support for extracting clips from a long video
- No on-wiki tools for assembling/editing multiple clips
- Poor administrative tools for managing background encoding jobs



Panoramic photos



WIKIMEDIA
FOUNDATION



by Alexandre Duret-Lutz, CC-BY

What works in panoramas

- There are some gadgets / user scripts / site scripts
 - 2d tiled pan/zoom
 - Spherical pan/zoom
- [See demo!](#)

What's broken in panoramas

- Default view is still the raw image
- Ad-hoc panoramic viewers not reliably available on Wikipedia and sister sites
- Nothing available to third-party wikis using InstantCommons

3d models



WIKIMEDIA
FOUNDATION

What works?

- Not yet deployed...
 - 3d extension supports WebGL in-browser rendering of models in some common formats
 - Has integration with MultimediaViewer
- Checking format copyright/patent issues?

Interactive diagrams & beyond



No has iniciado sesión [Discusión](#) [Contribuciones](#) [Crear una cuenta](#) [Acceder](#)

Leer

Editar

Ver historial

Buscar



way

Generación 0
Población 5

an, en

ante

r

s

ejos

dor

rmar

u



áquinas que, por otro lado, no se utilizarían por la noche.

What works?

- Not much!
- Some ad-hoc tools done via site JS
 - Spanish Wikipedia example: [Juego de la vida](#)
 - Not a lot of safety yet -- site JS has complete control of account

What could be done?

- Better security for user-supplied JS code via `<iframe>` isolation and CSP
- Some integration, editing support might be nice
- Explicit fallback media for non-interactive mode (print, no-JS, etc)

Next steps



WIKIMEDIA
FOUNDATION

Very soon: mobile

- Finish switching from old kultura player to video.js
 - Mobile player for Android and iOS
 - Test on desktop via BetaFeatures before making default
- Hack something workable into the mobile apps for now

Shortly: embedding

- Expand `<iframe>` embedding support
 - Support all video params
 - Generalize support to other file types...
 - Start with panoramic images
- Use `iframe` for InstantCommons on audio, video, rich images
 - No longer need local extension setup for video from Commons!
 - Make sure it works with MultimediaViewer!



External embedding?

- Set up suitable metadata for Facebook, Twitter, etc to attach iframe embeds to links to our media pages
 - Where necessary, contact them for whitelisting

Next: Popcorn

- Continue work with Internet Archive and Mozilla folks on Popcorn
 - In-browser video editor - extract, combine clips
 - Integrate into MediaWiki
 - Extend with auto-generation of credits

Curation tools?

- Uploading lots of clips of raw footage to Commons could be hard on admins there doing review
- Do we need a separate way to categorize raw footage belonging to some project?
- Do we need a separate place to store the raw footage?
- Copyvios, inappropriate material, etc...

Auto conversion?

- Most source files shot on common tools are MP4/H.264/AAC
- Forcing users to manually convert to Ogg or WebM is very user-hostile
- Conversion tools on wmflabs exist and are commonly used
- Can we figure out how to integrate with UploadWizard on official infrastructure without scaring Legal and community?

Other tools

- Better editing and translation tools for subtitles?
- Tools to assist in voice-over translation?
- ... what do YOU need?

